

FIG. 1A

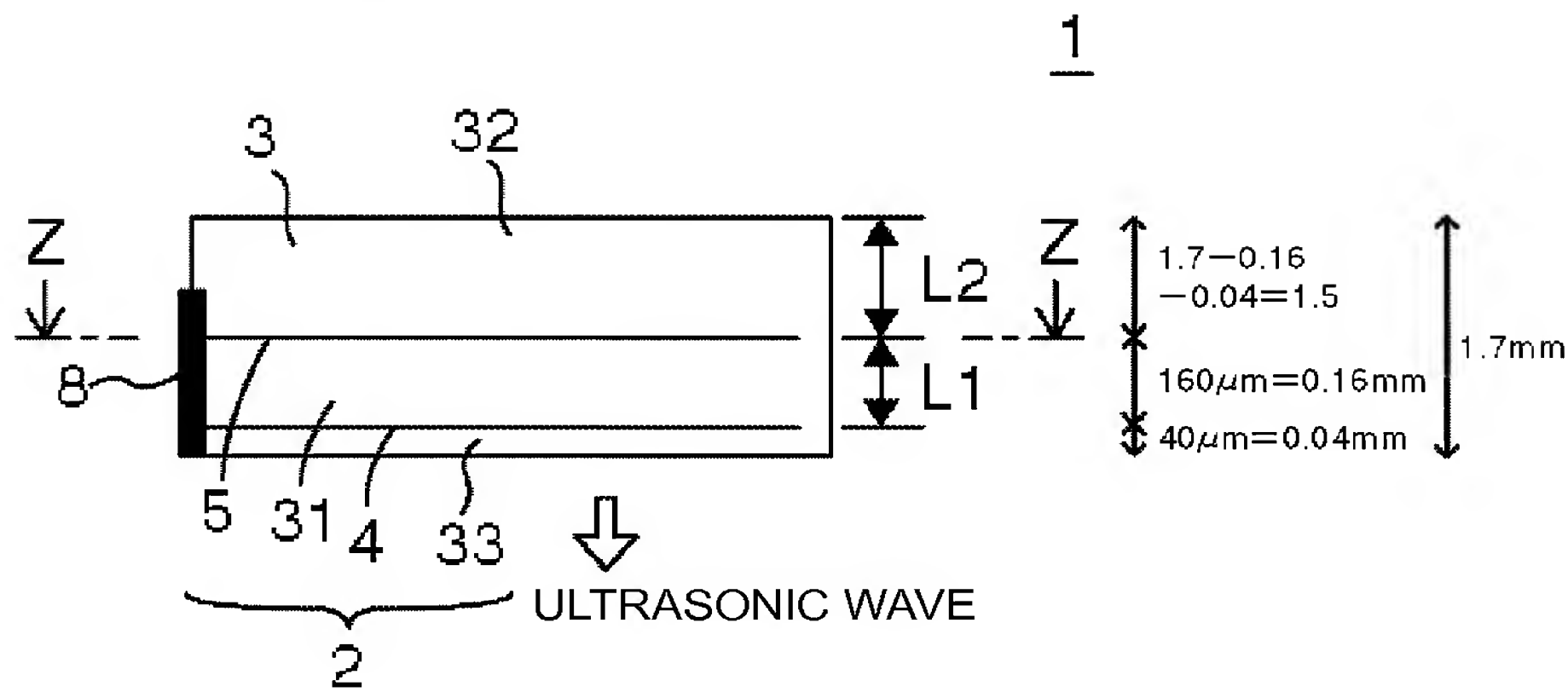


FIG. 1B

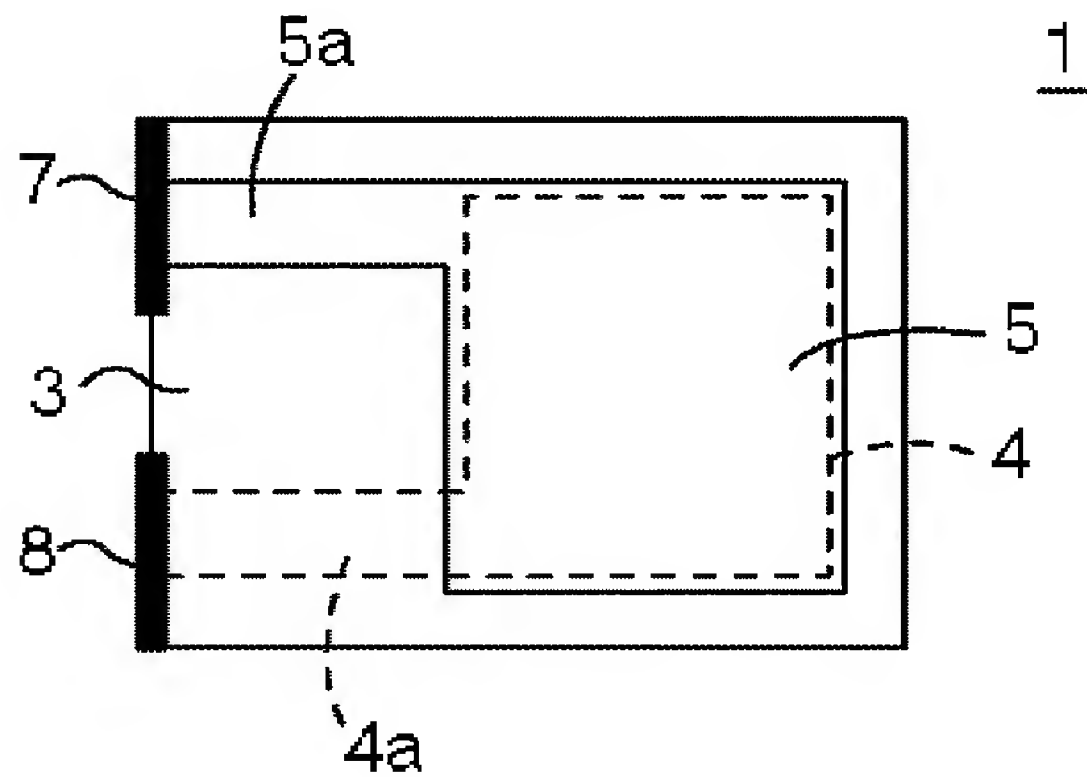


FIG. 2A

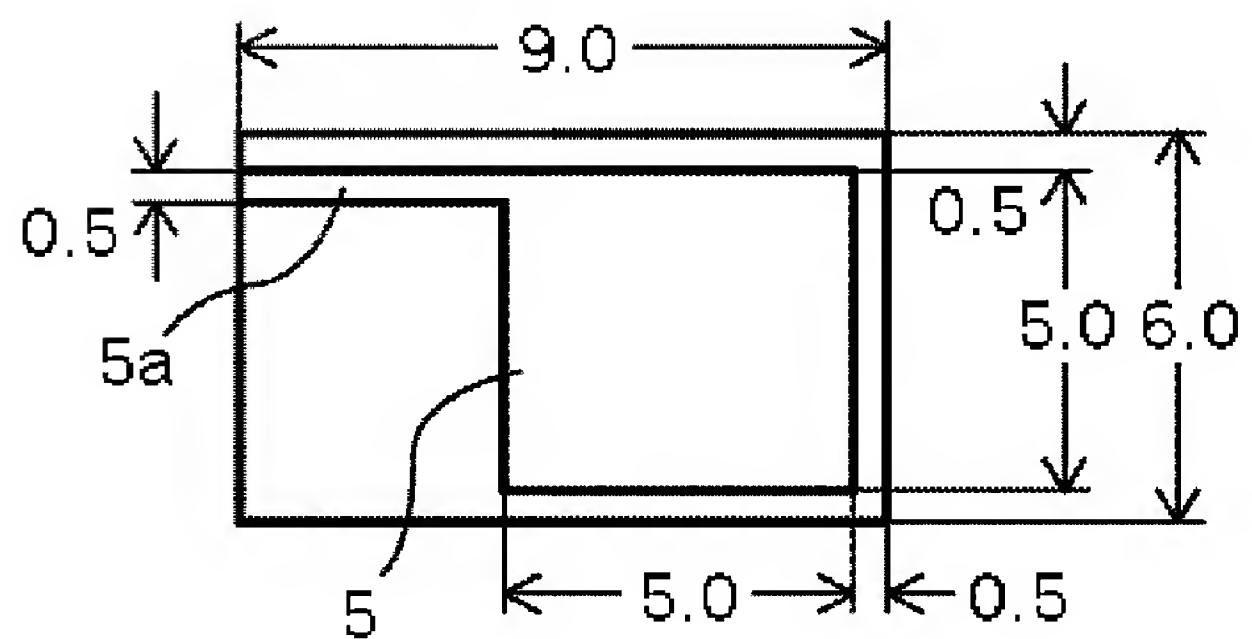


FIG. 2B

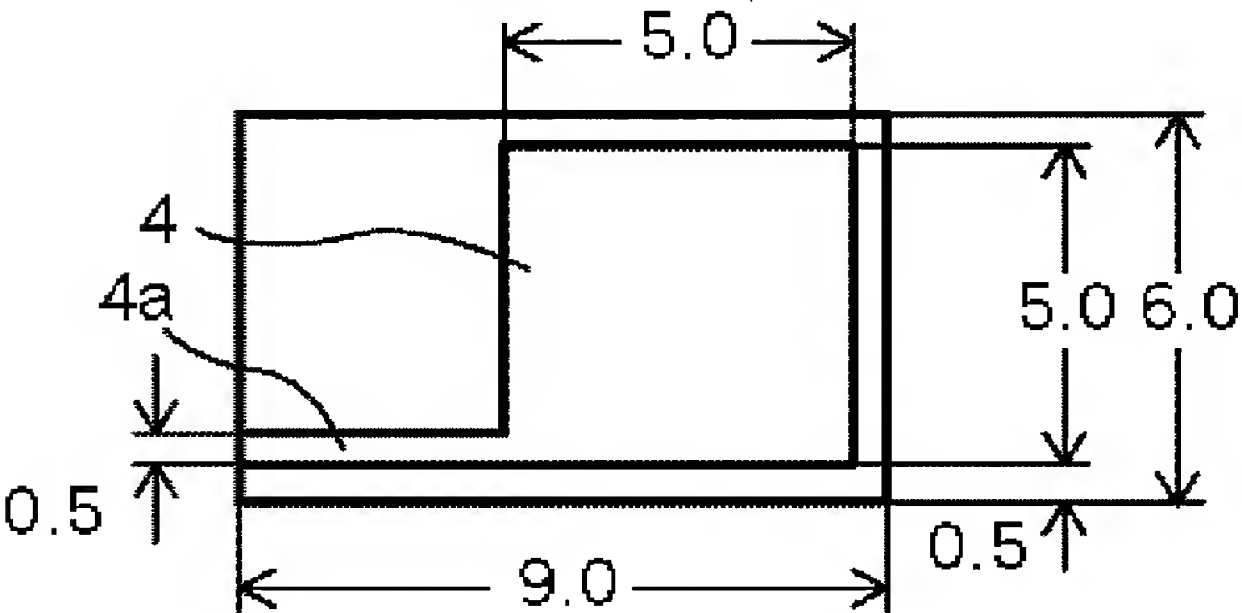


FIG. 3

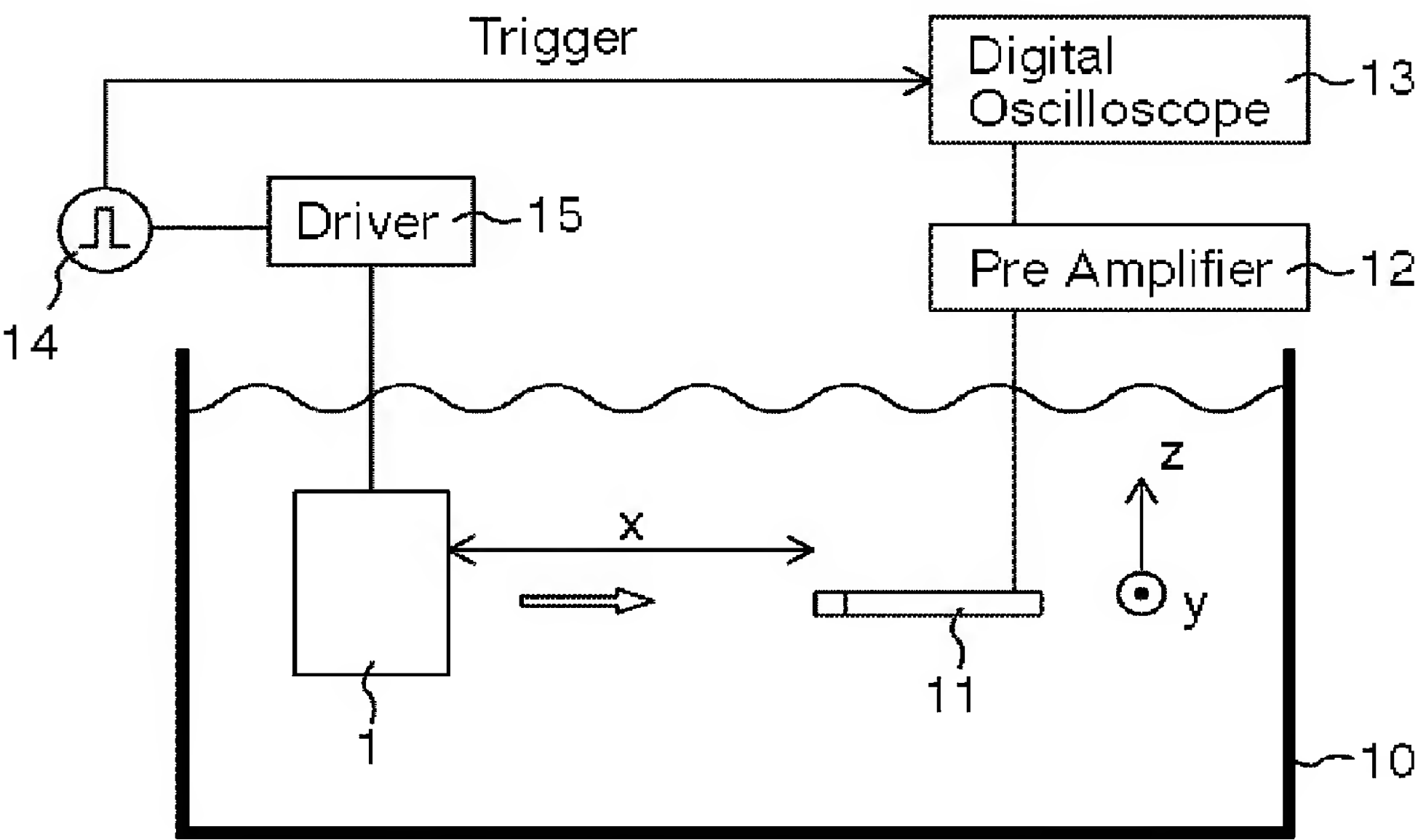


FIG. 4

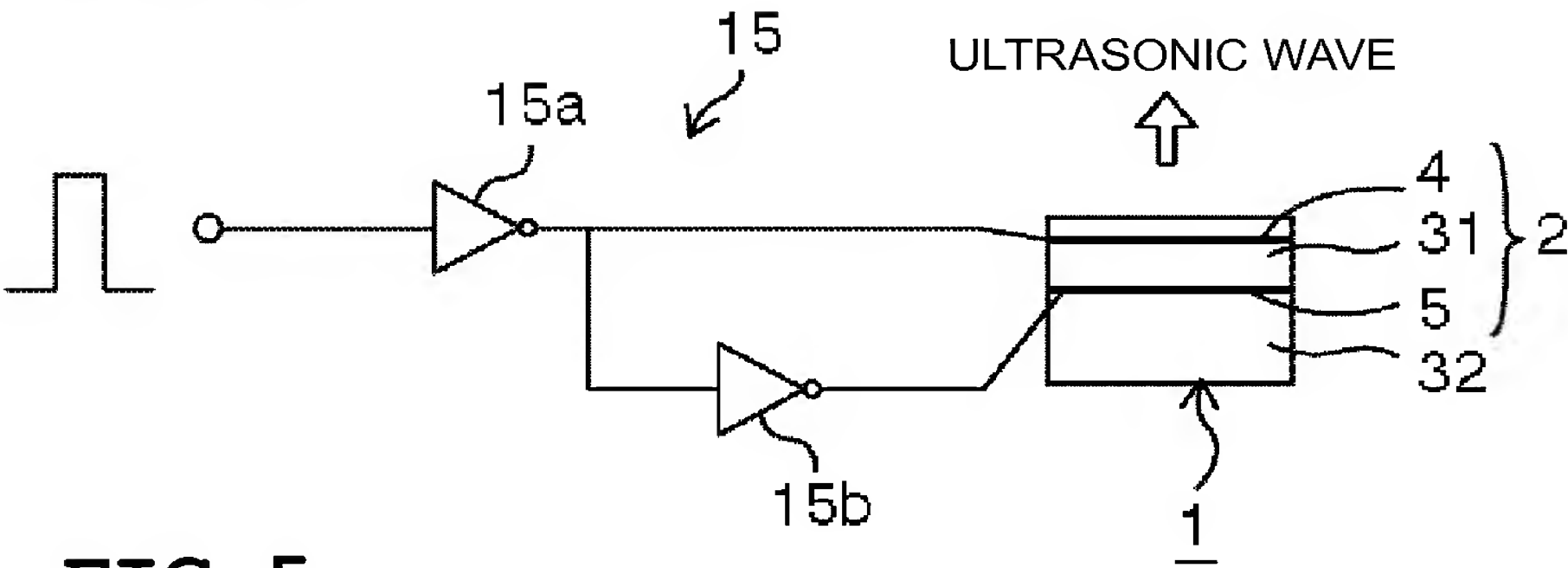


FIG. 5

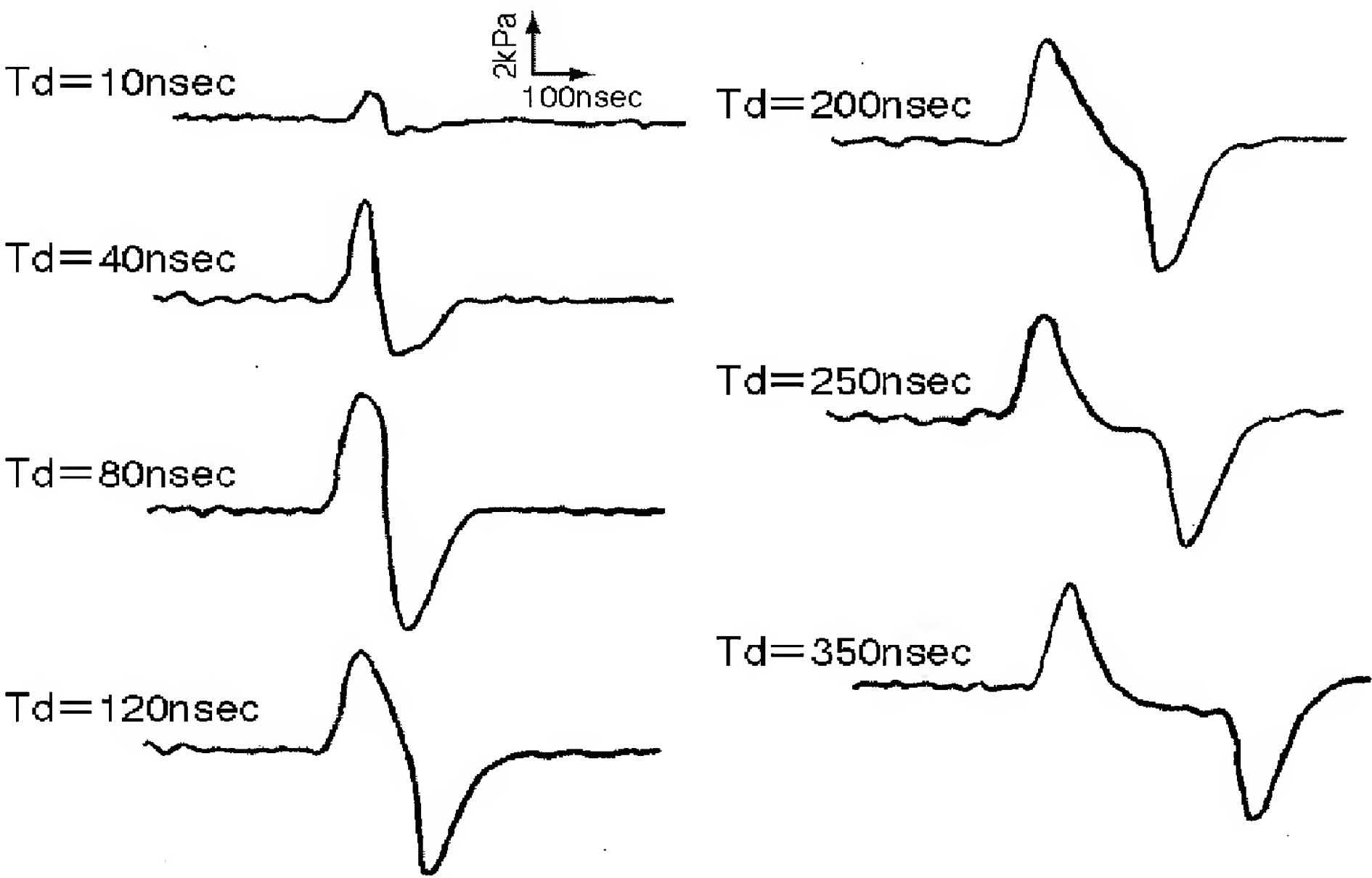


FIG. 6

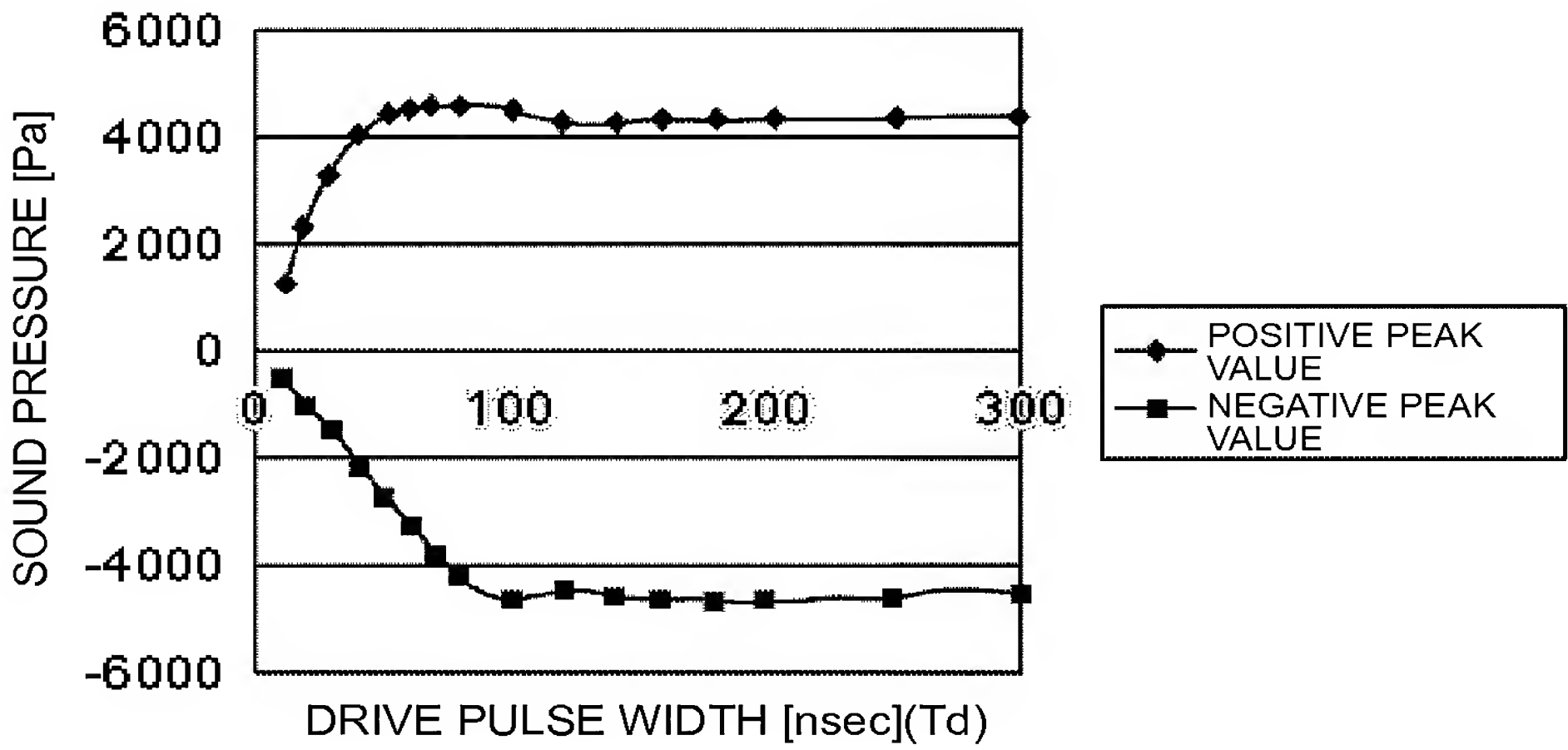


FIG. 7

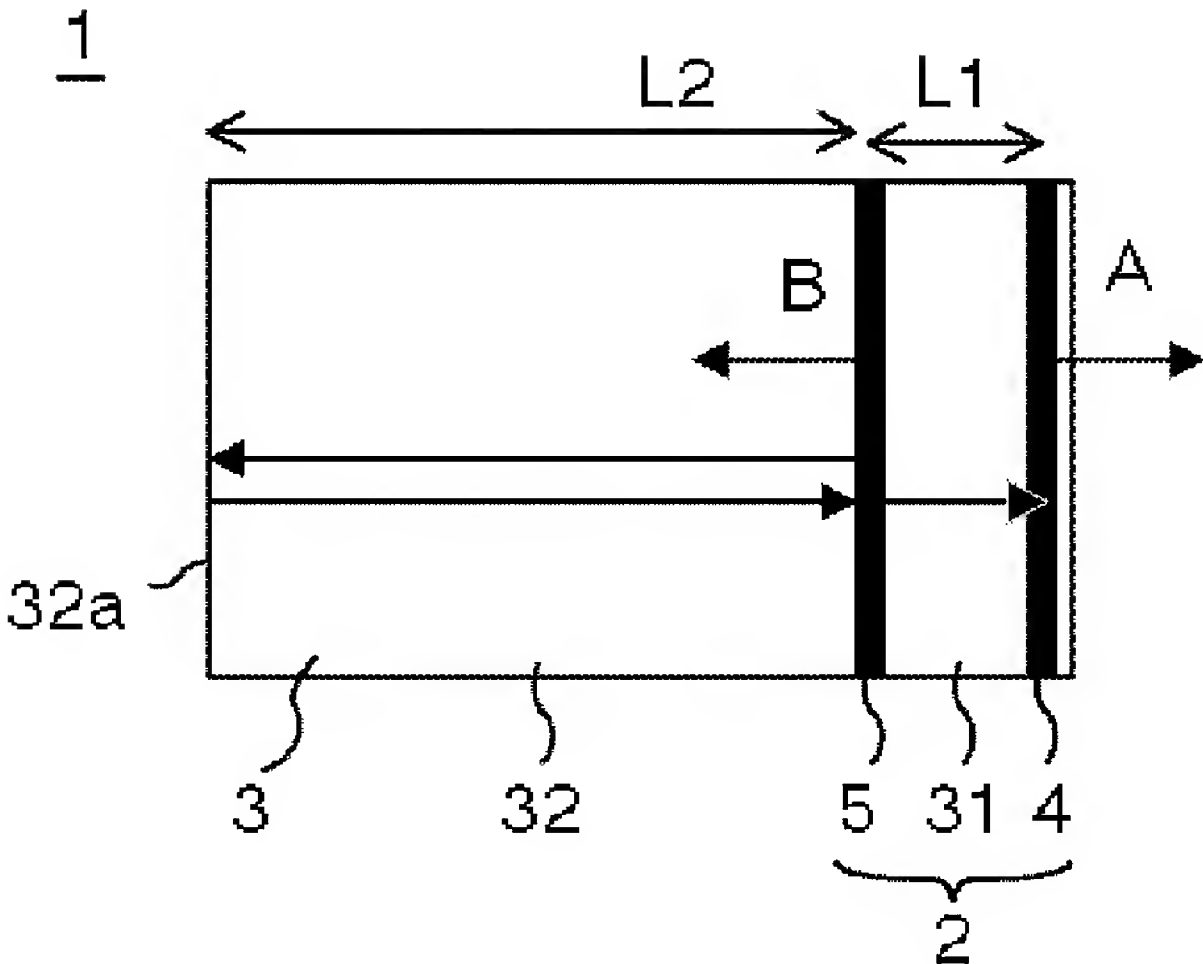


FIG. 8A

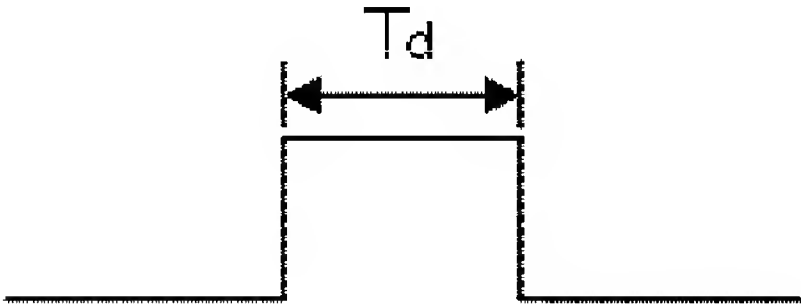


FIG. 8B

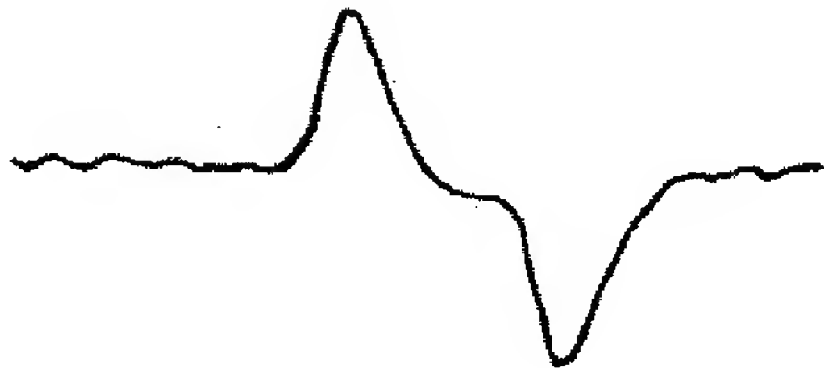


FIG. 9

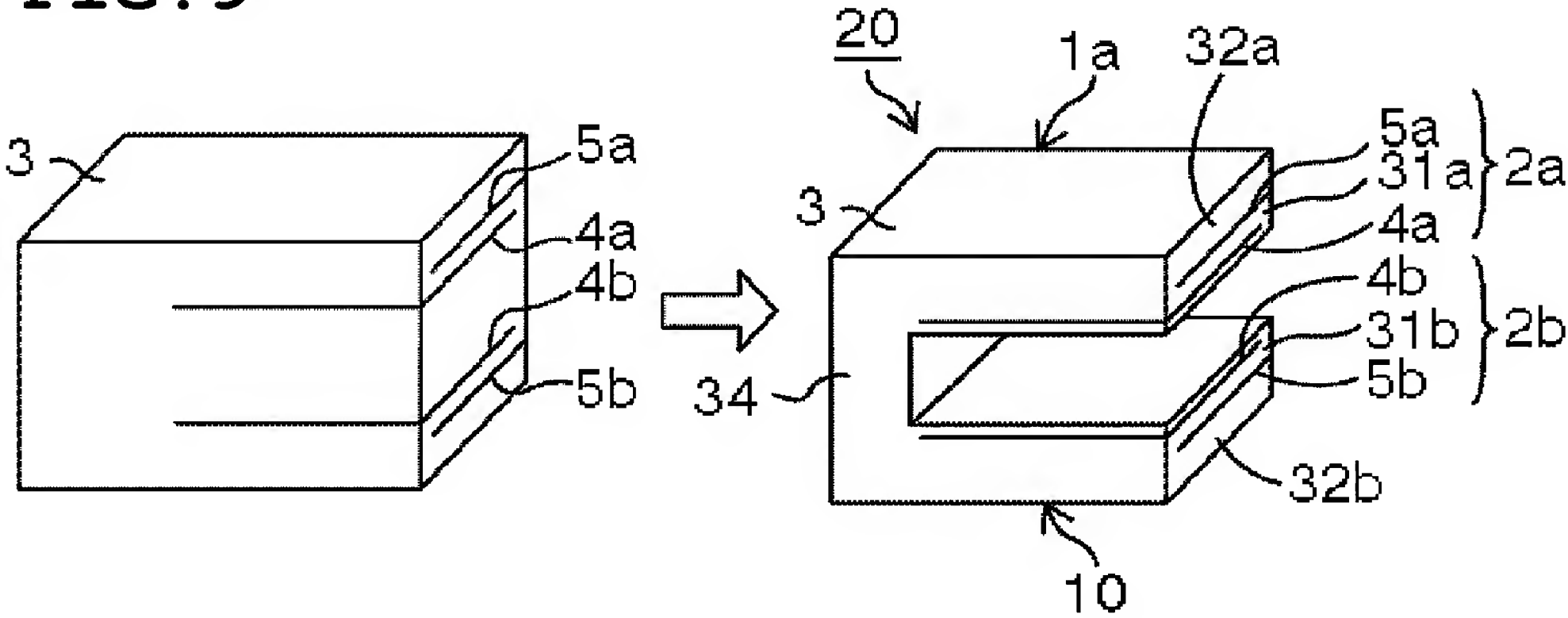


FIG. 10

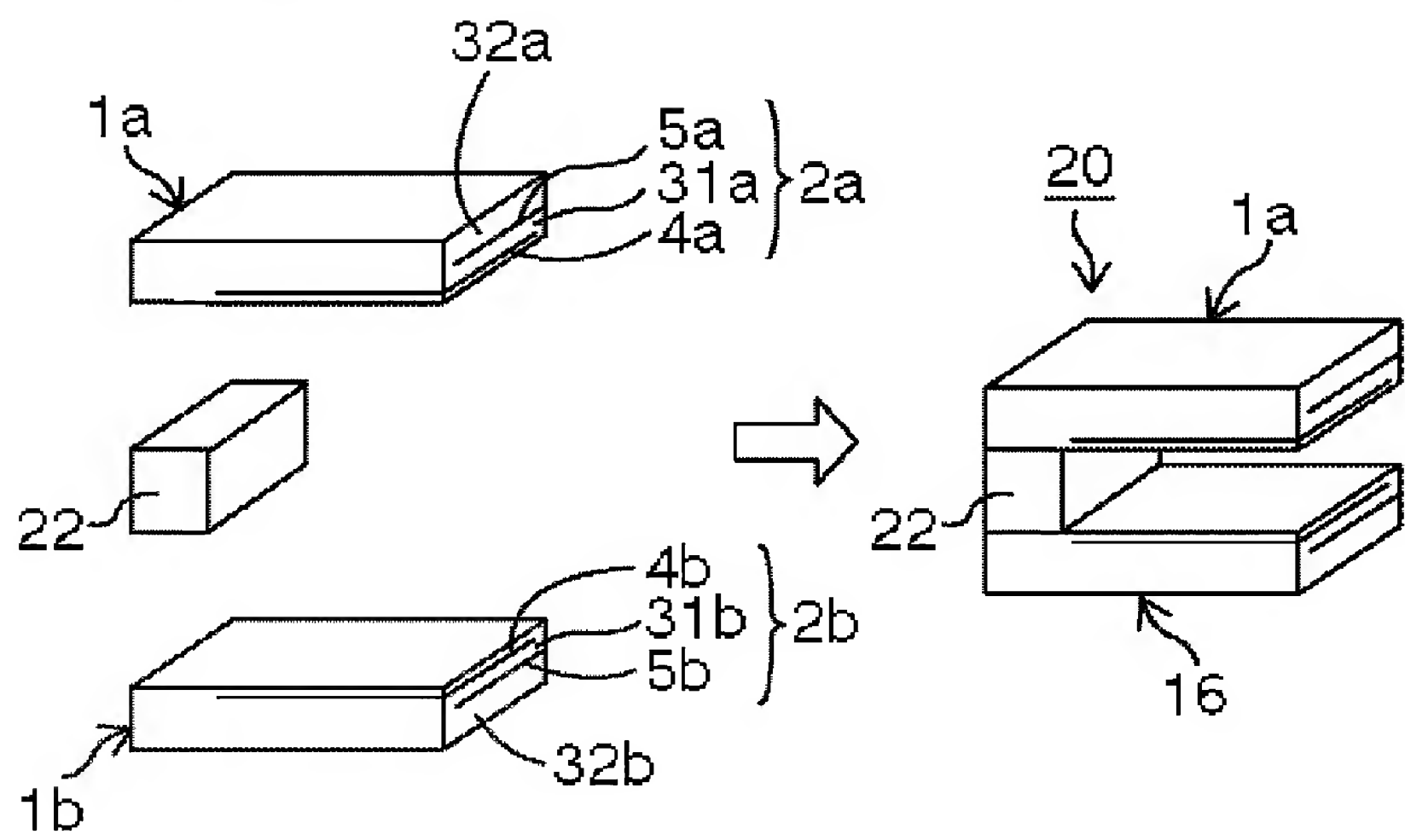


FIG. 11

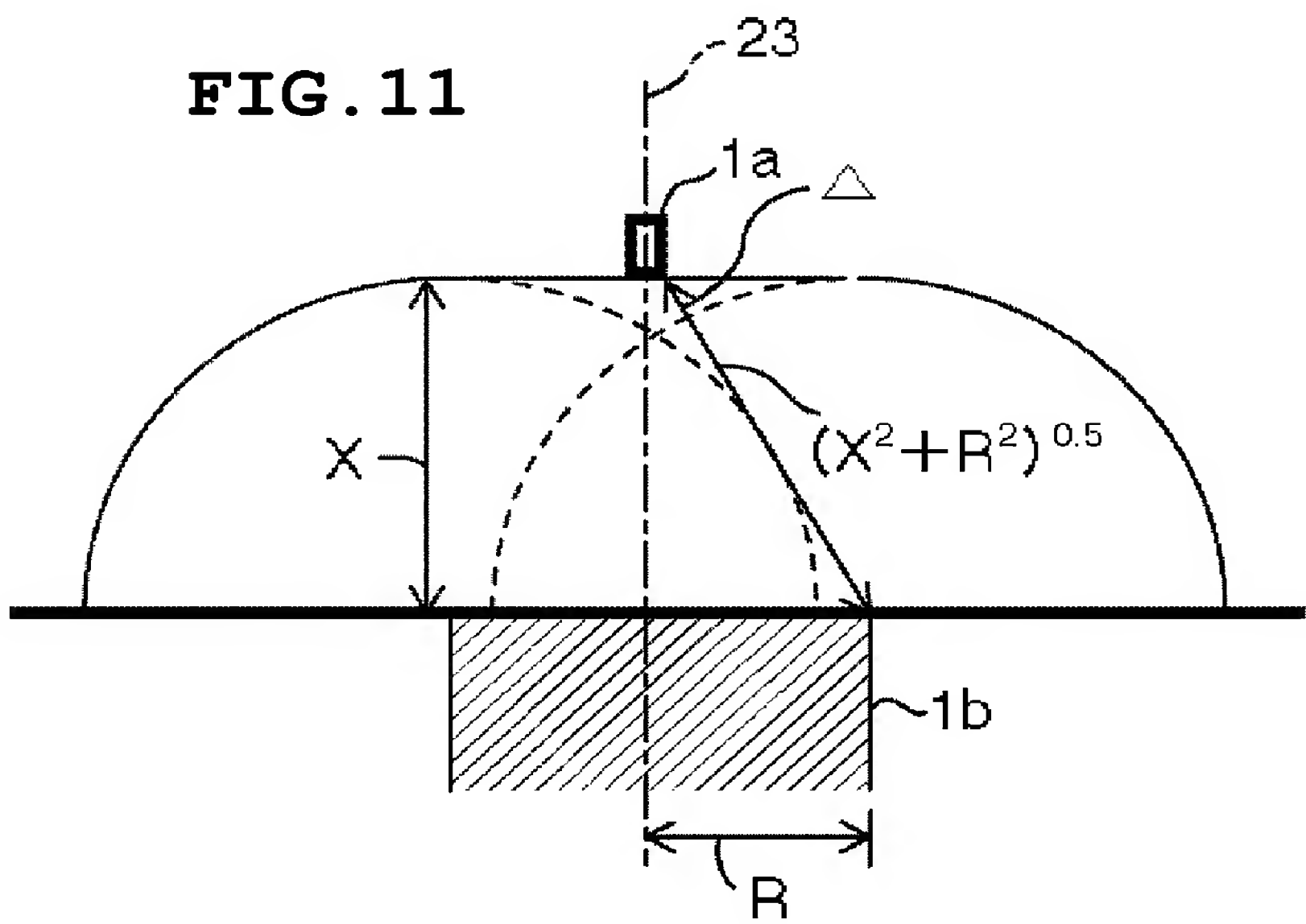


FIG. 12A

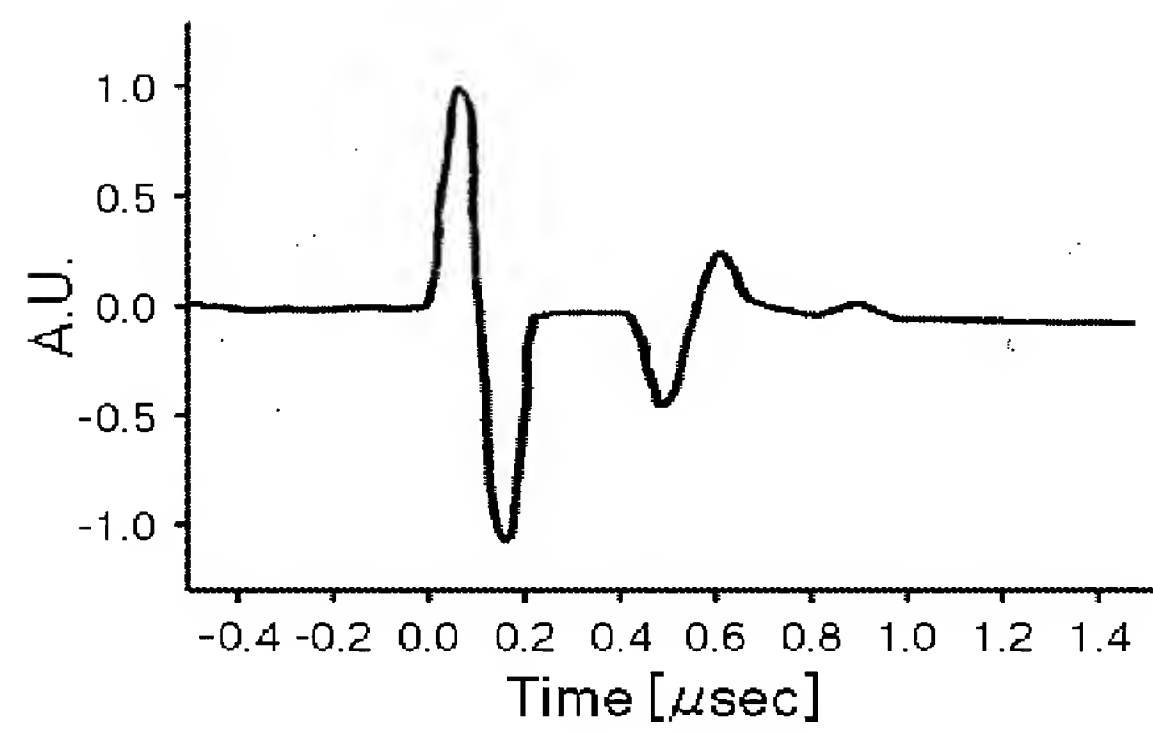


FIG. 12B

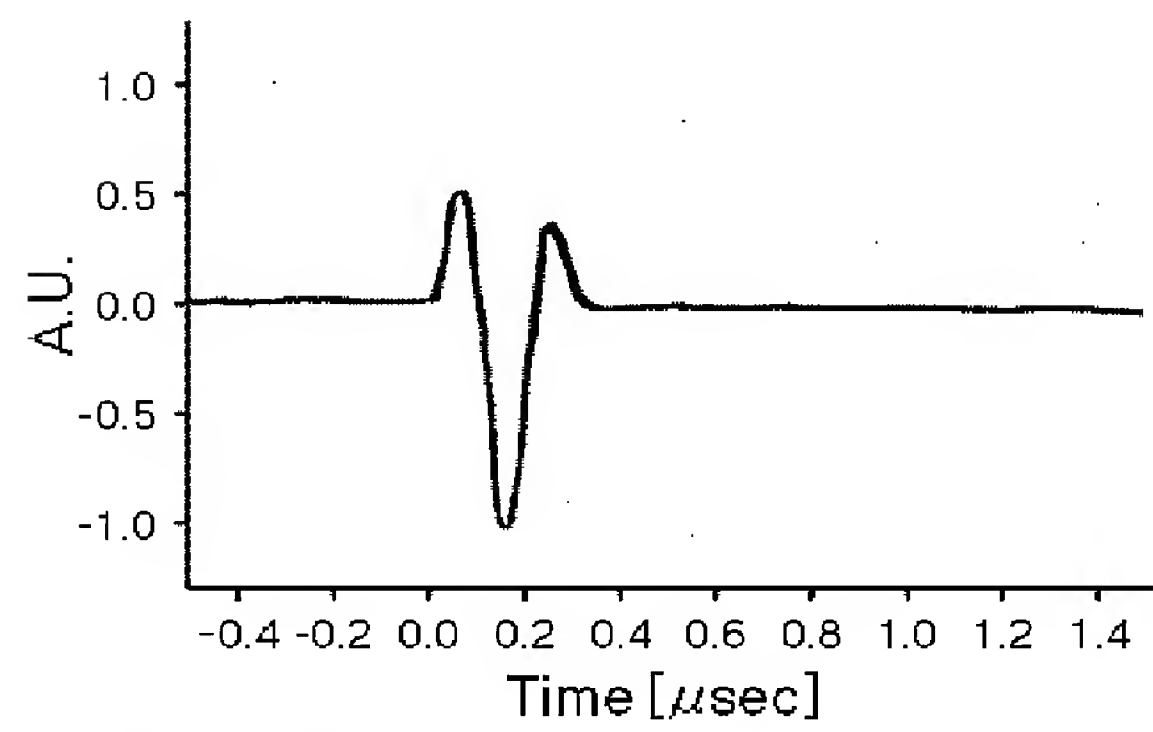


FIG. 13

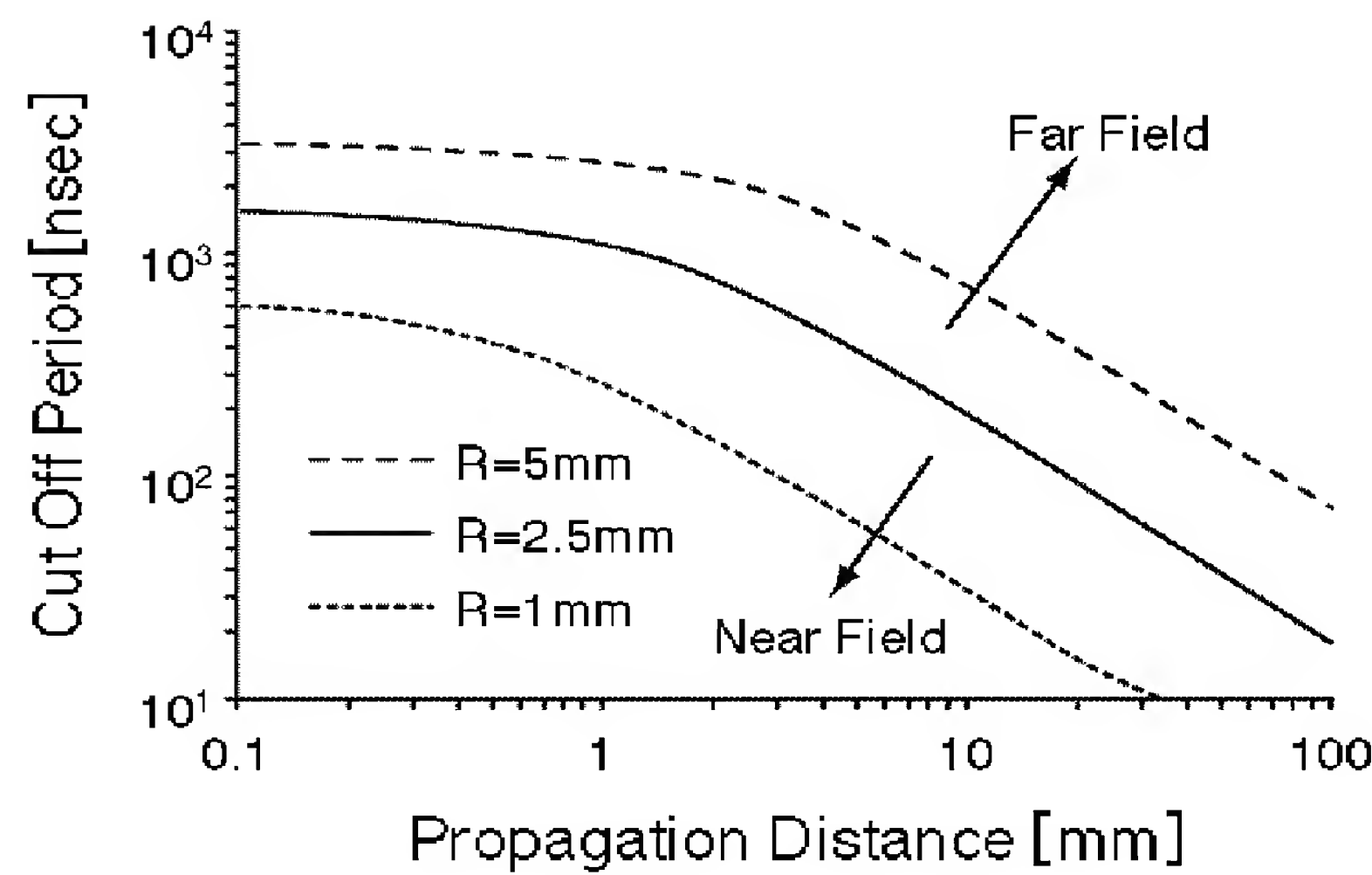


FIG. 14

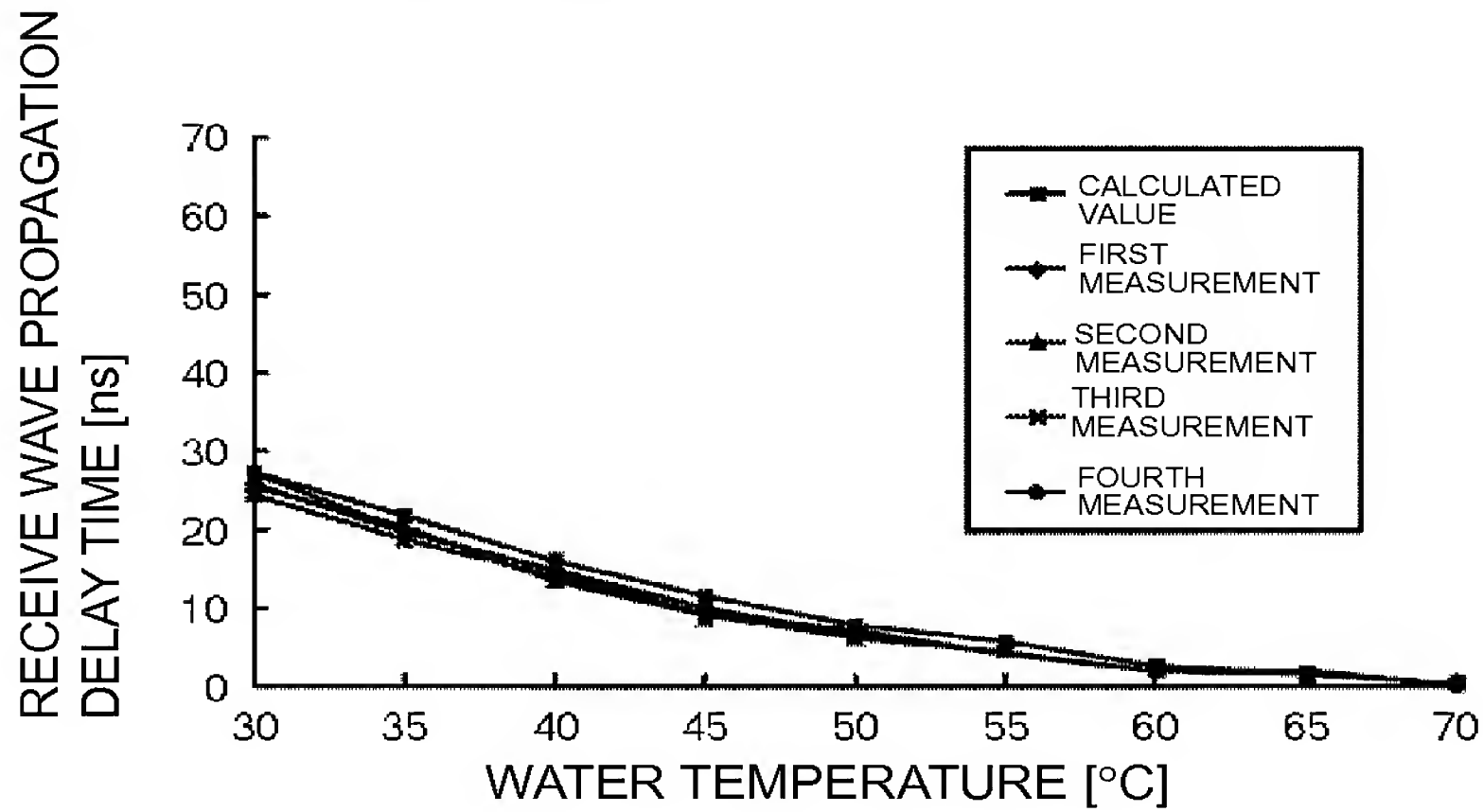
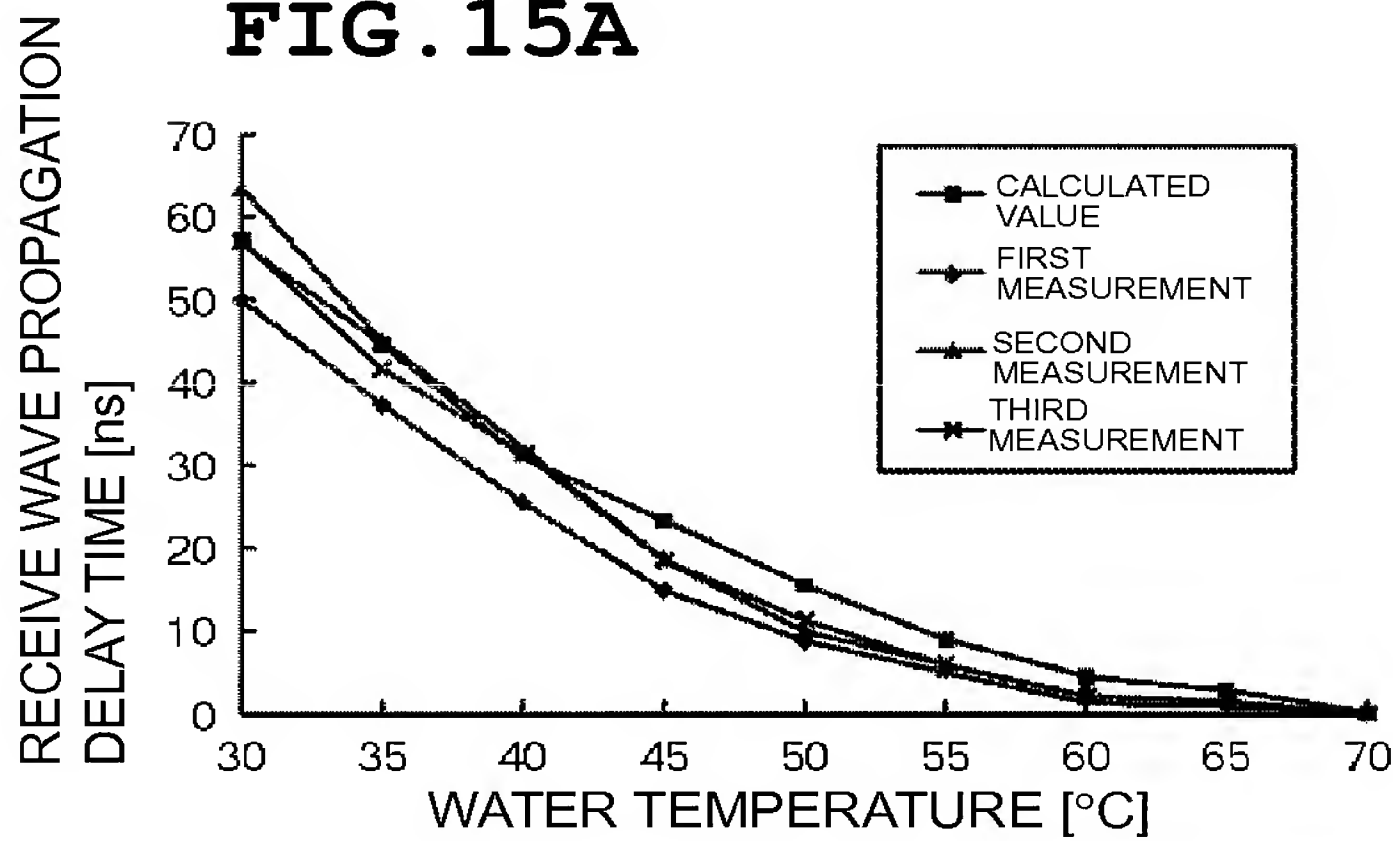
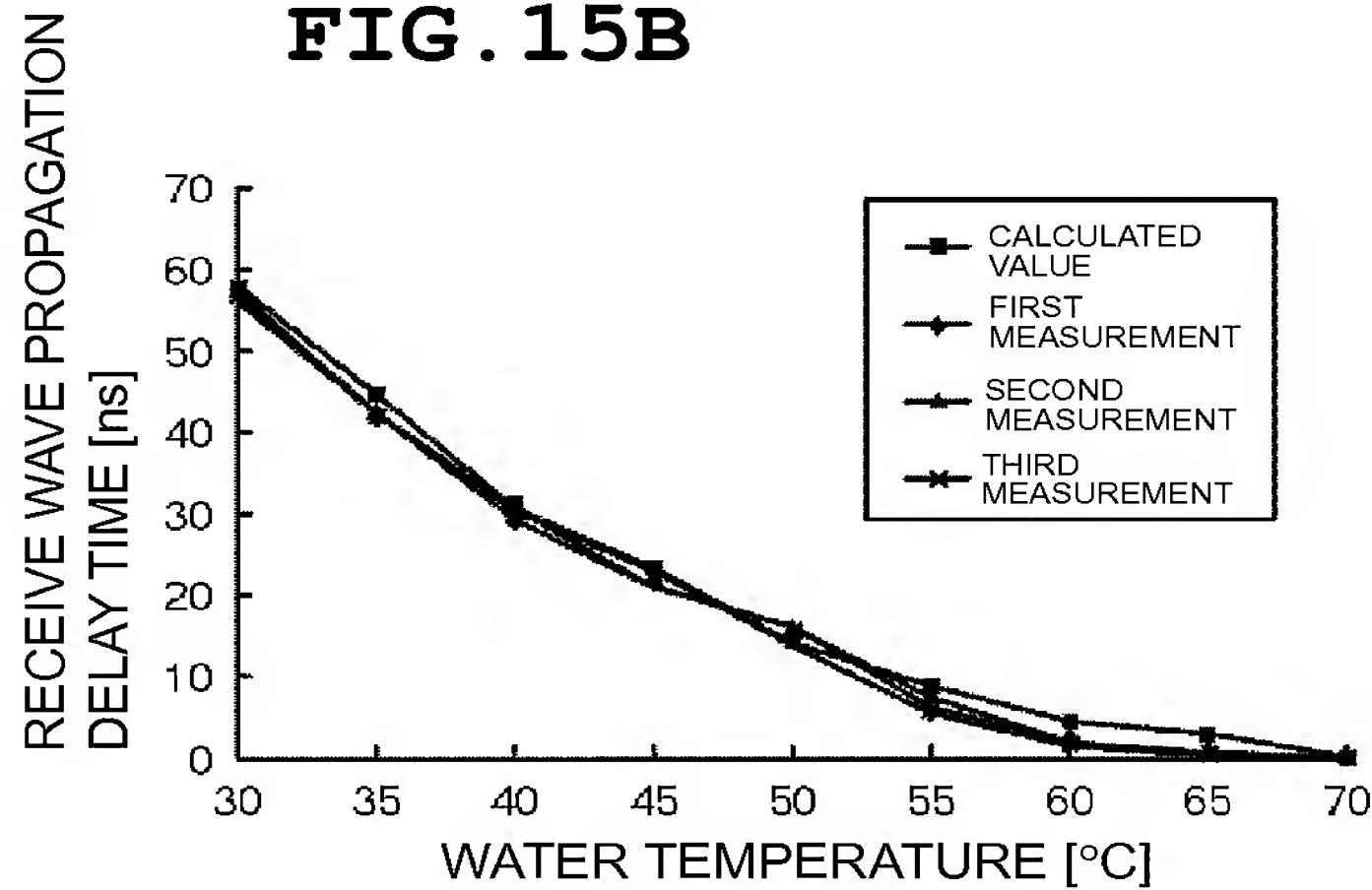


FIG. 15A



SAMPLE BONDED WITH EPOXY RESIN

FIG. 15B



SAMPLE BONDED WITH GLASS

FIG. 16

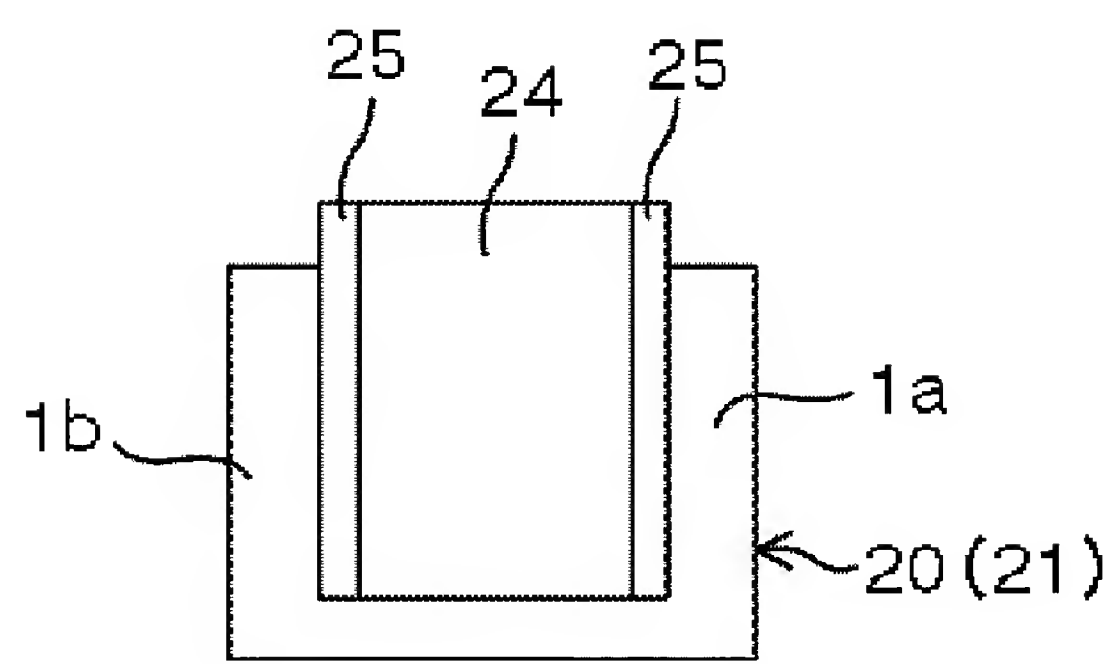


FIG. 17A

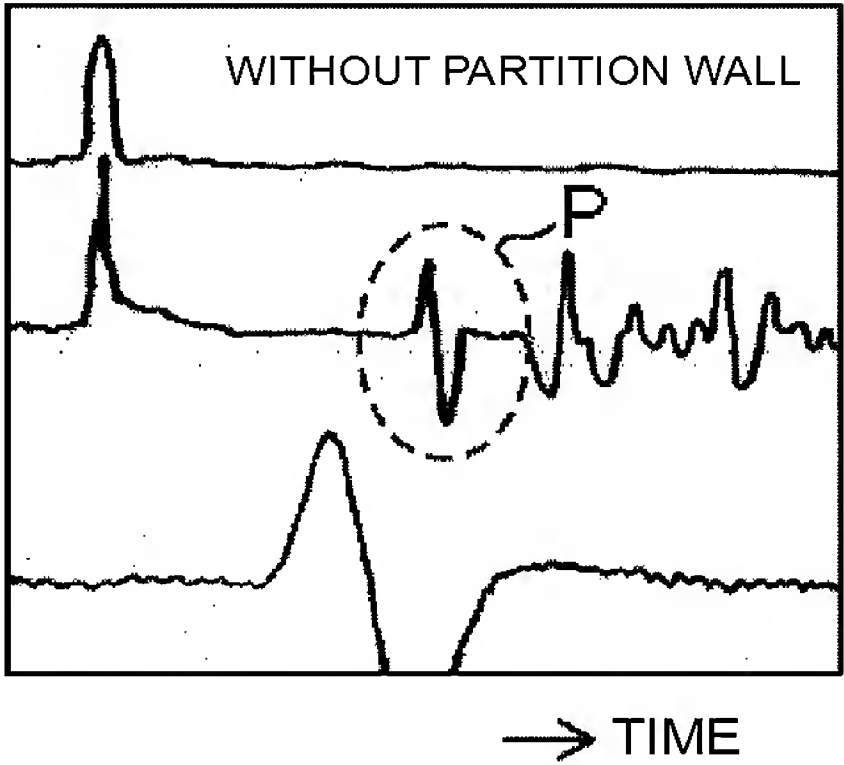


FIG. 17B

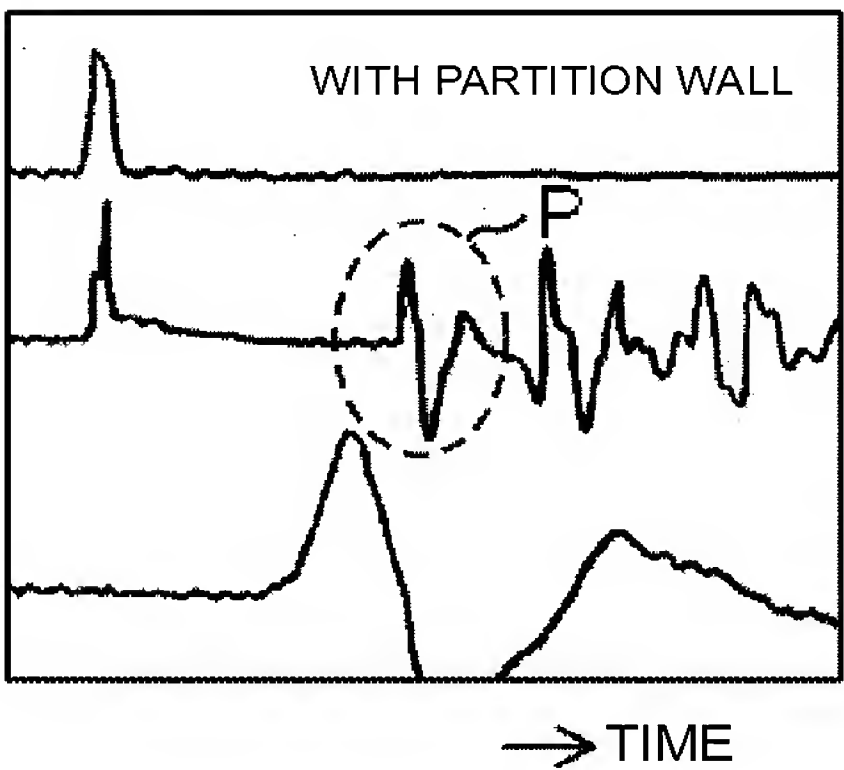


FIG. 18

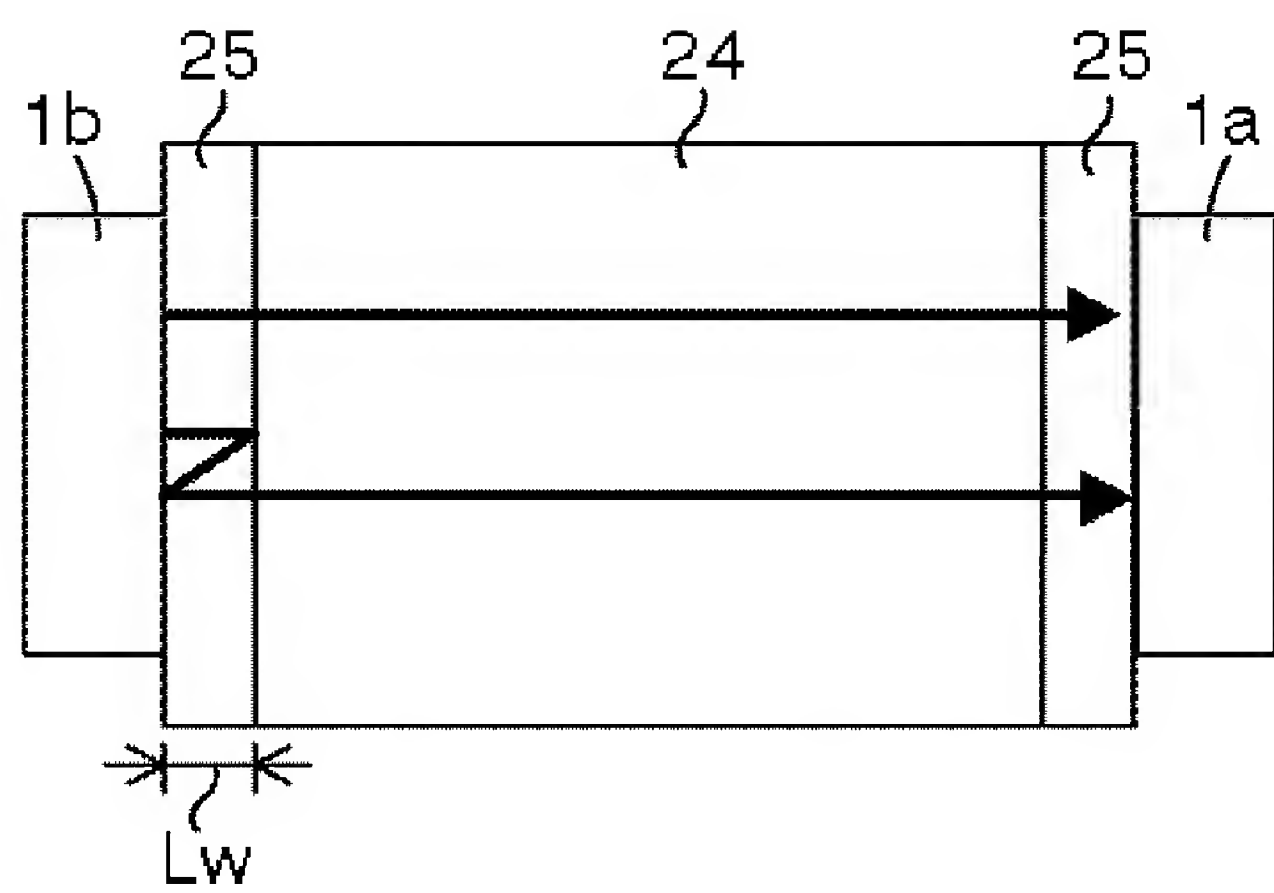


FIG. 19A

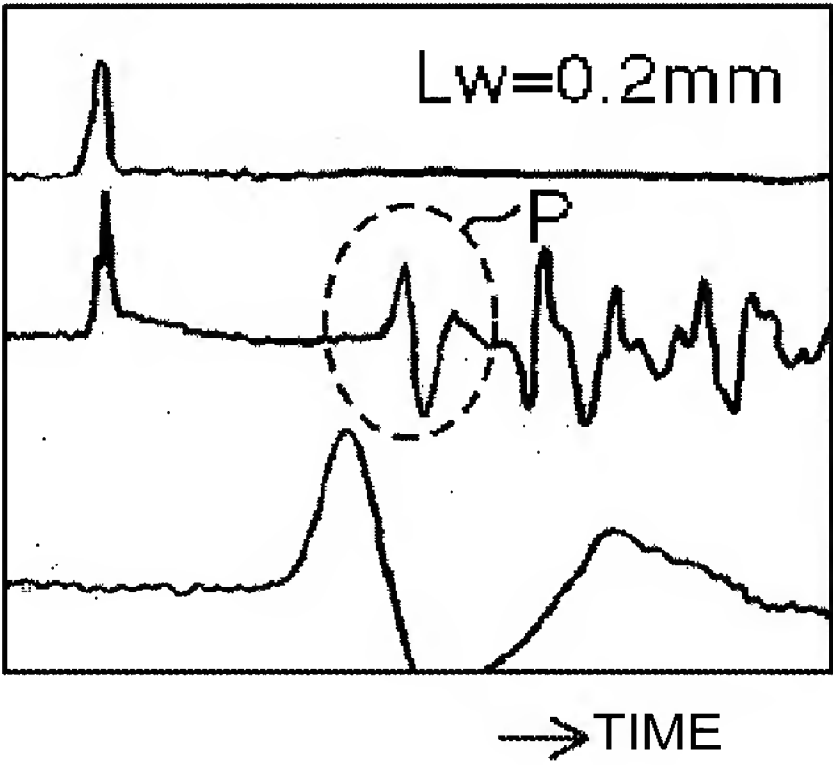


FIG. 19B

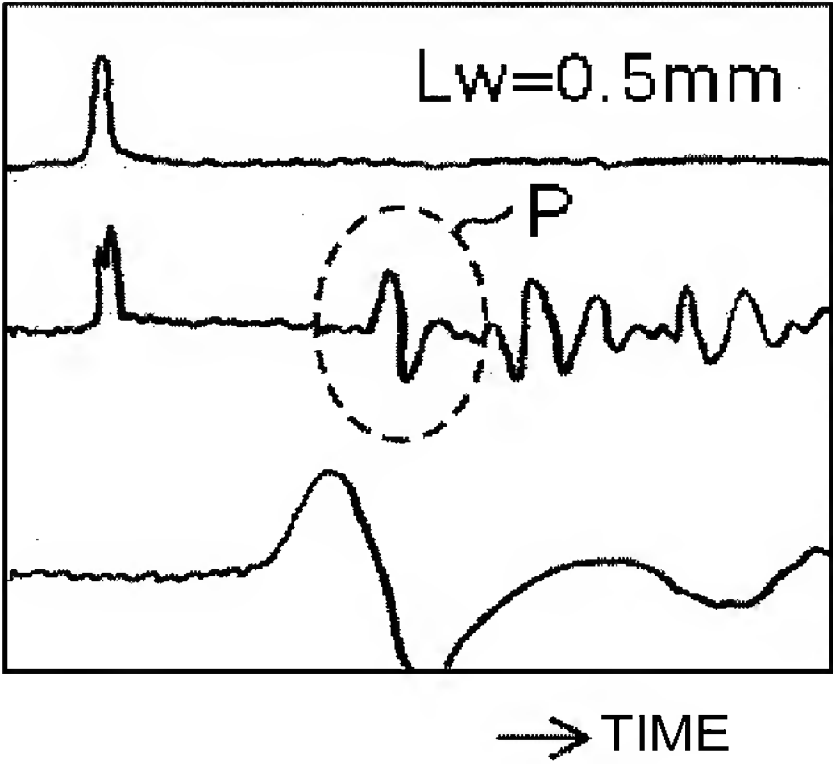
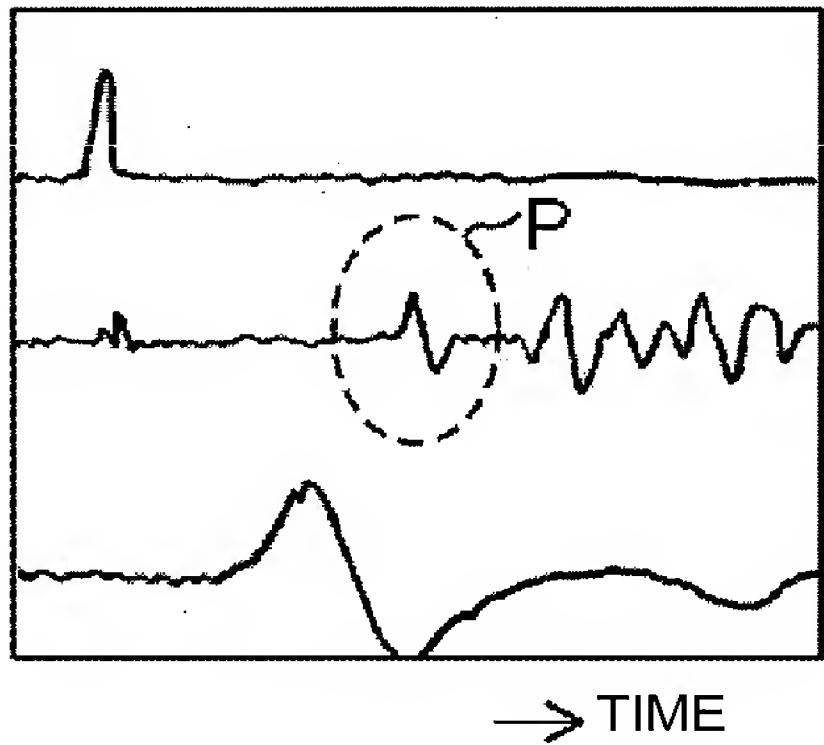
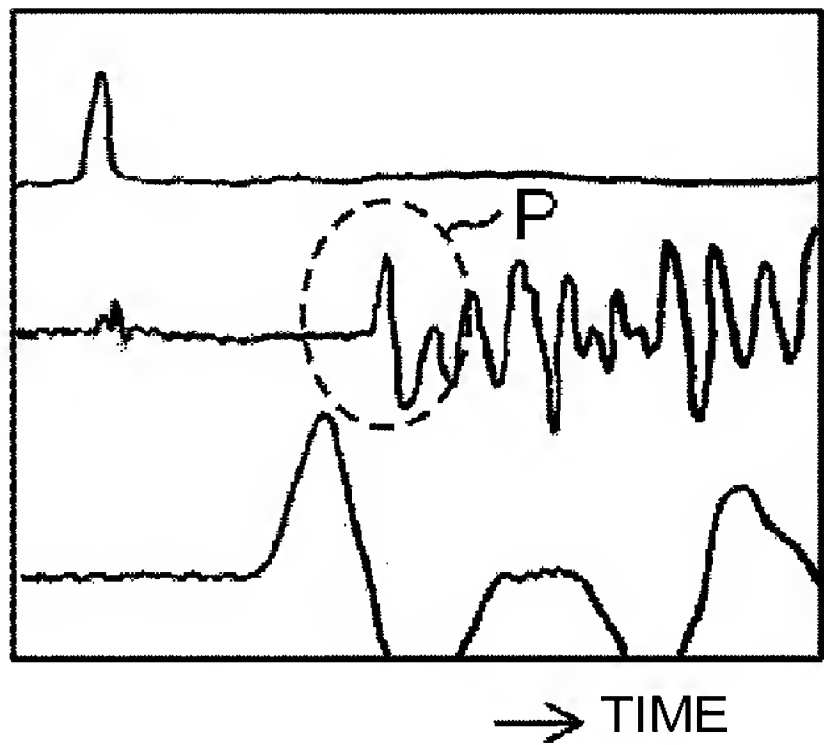


FIG. 20A



MEASUREMENT RESULT OF A SAMPLE BONDED WITH
A POLYCARBONATE HAVING A THICKNESS OF 0.5 mm

FIG. 20B



MEASUREMENT RESULT OF A SAMPLE BONDED WITH A
LIQUID CRYSTAL POLYMER HAVING A THICKNESS OF 0.5 mm

FIG. 21

MATERIAL	DENSITY (kg/m ³)	SOUND SPEED (m/s)	CHARACTERISTIC IMPEDANCE (10 ⁶ kg/s/m ²)
POLYCARBONATE	1171	2330	2.73
LIQUID CRYSTAL POLYMER	1824	3470	6.33
CERAMIC	7800	3950	30.8
WATER	998	1483	1.48

FIG. 22A

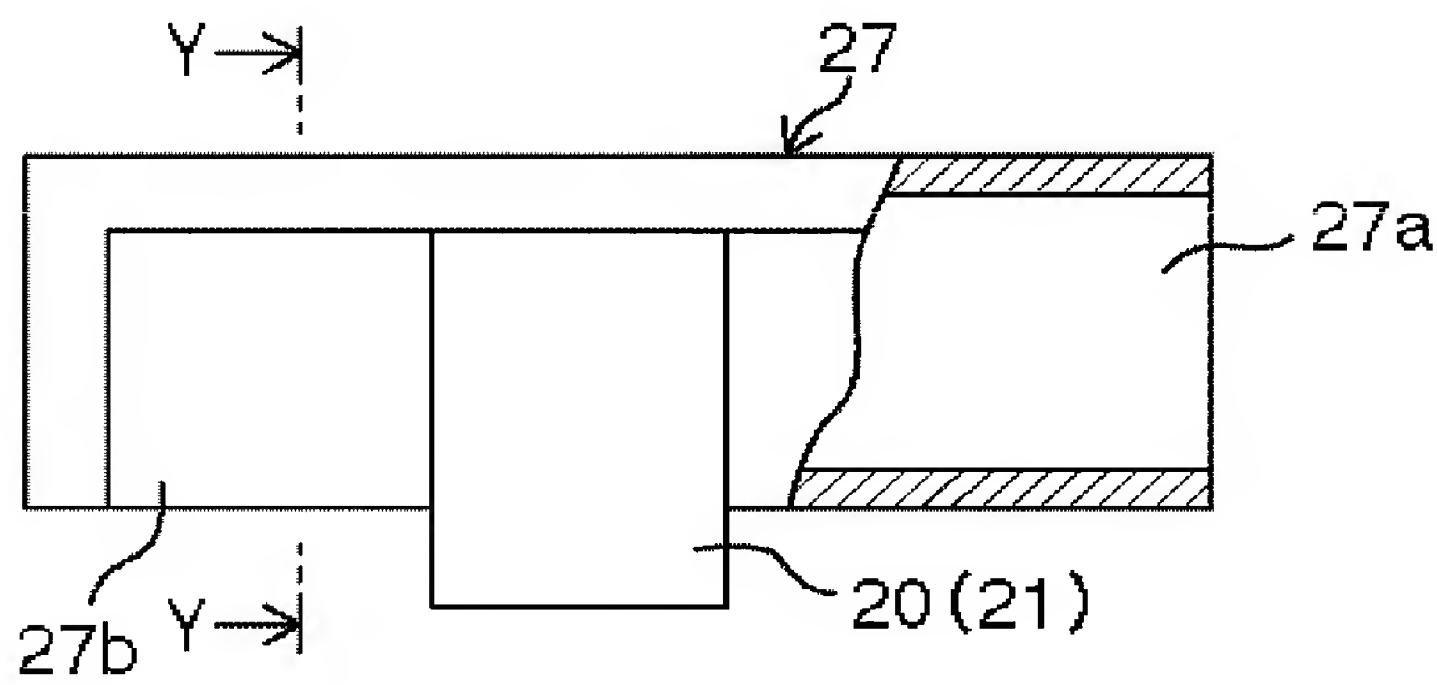


FIG. 22B

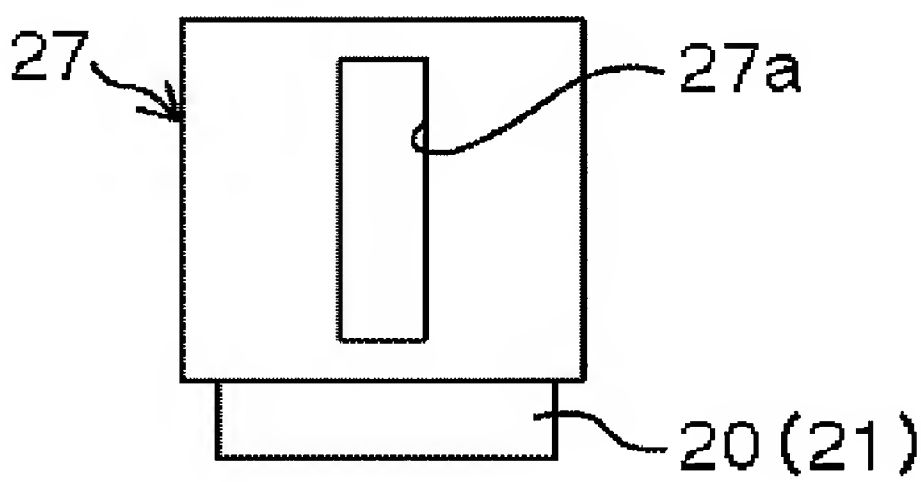


FIG. 22C

